

ATOMIC Briefing Summary

1/23/2020

Summary

- Our main sources are:

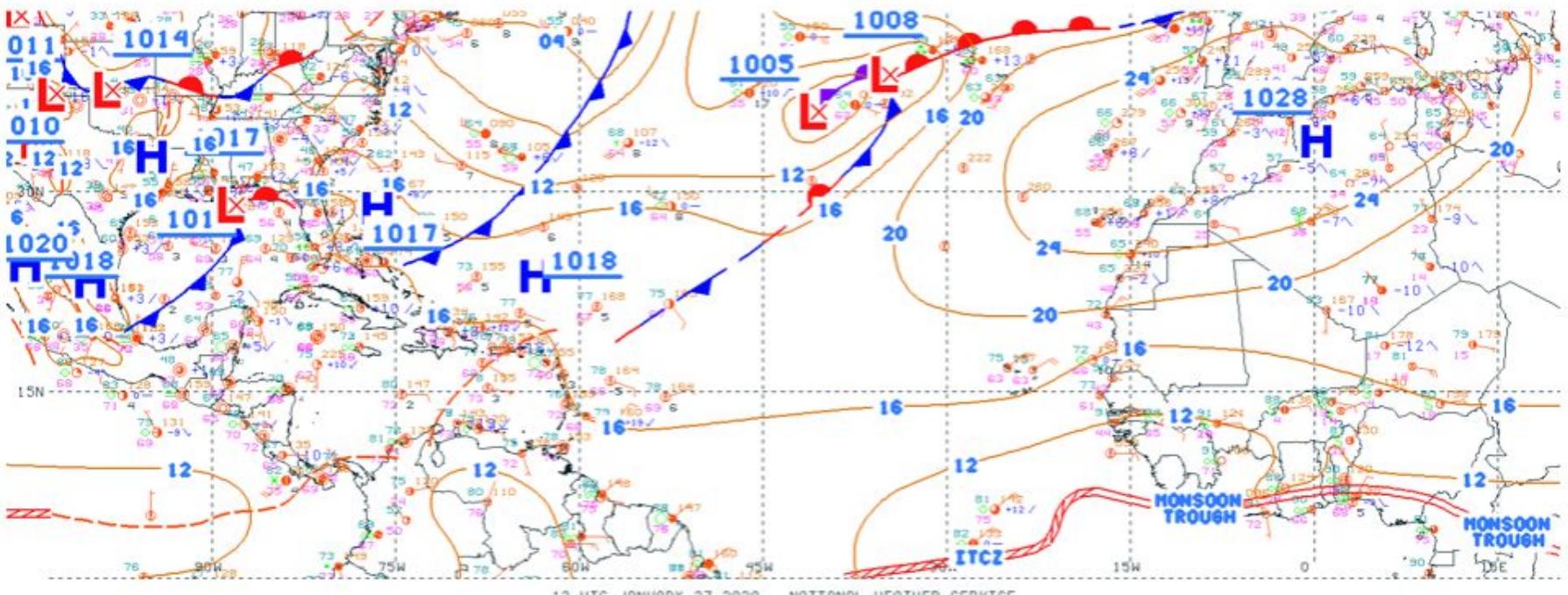
<https://www.esrl.noaa.gov/psd/atomic/briefing/>

<https://observations.ipsl.fr/aeris/eurec4a/#/>

- Latest ATOMIC weather briefing from Caribbean forecasters can be found here:

http://eurec4a.uk/forecast_testbed/

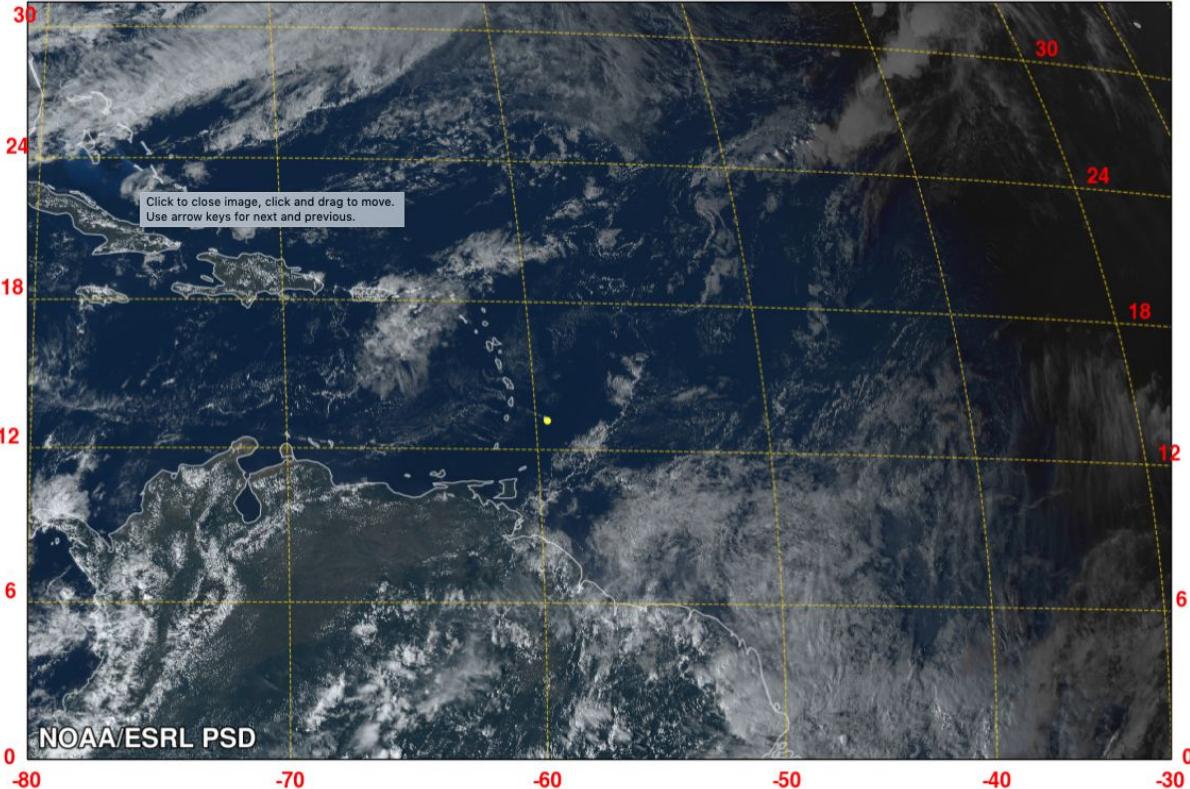
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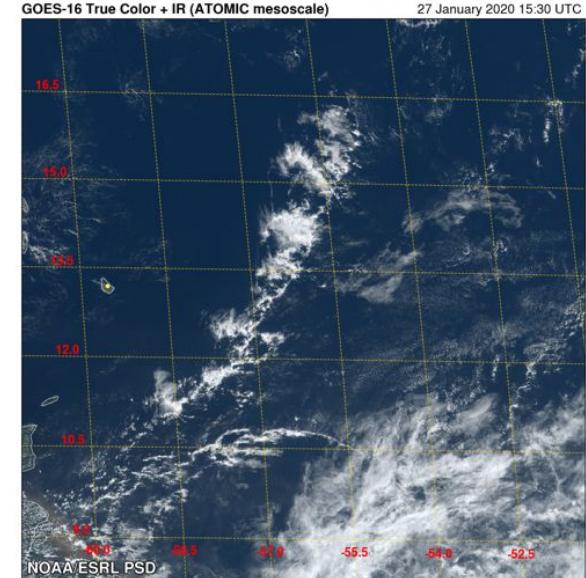
12 UTC JANUARY 27 2020 - NATIONAL WEATHER SERVICE

Today's GOES-16

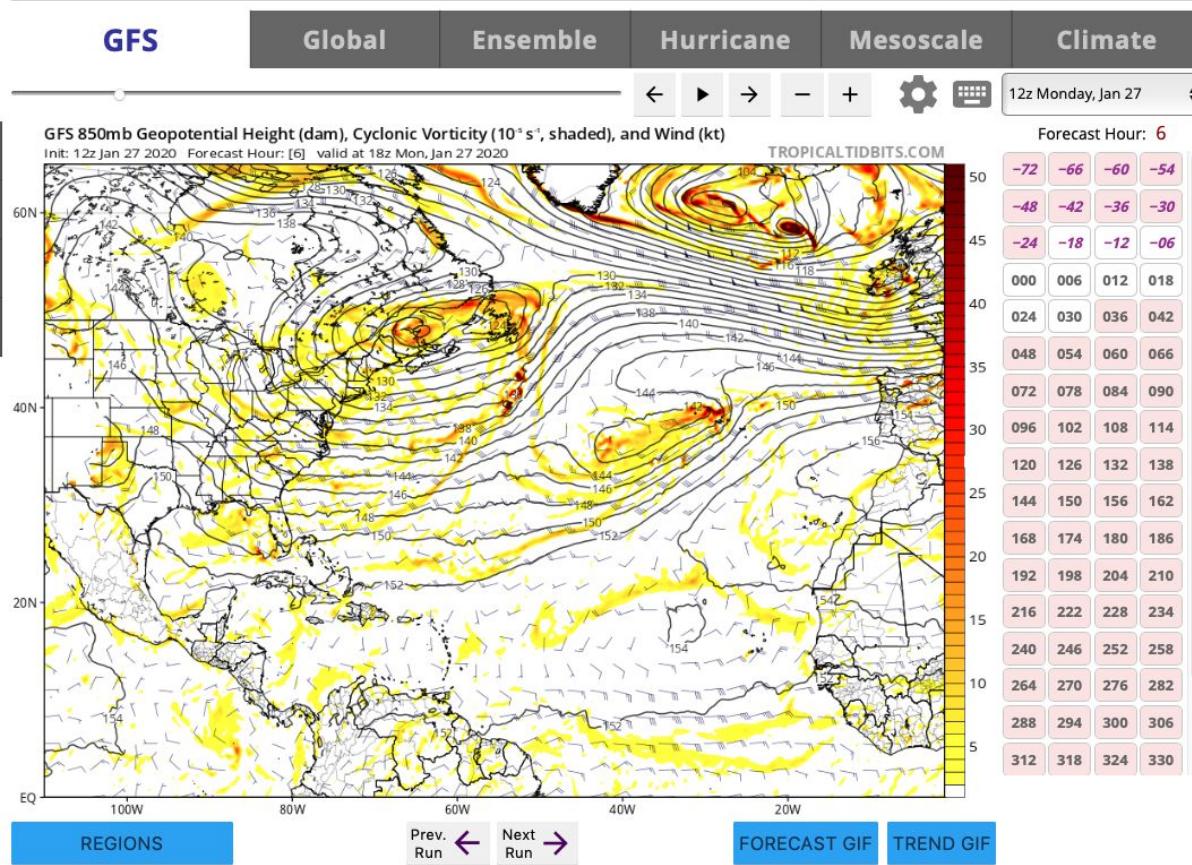
GOES-16 True Color + IR (ATOMIC regional)



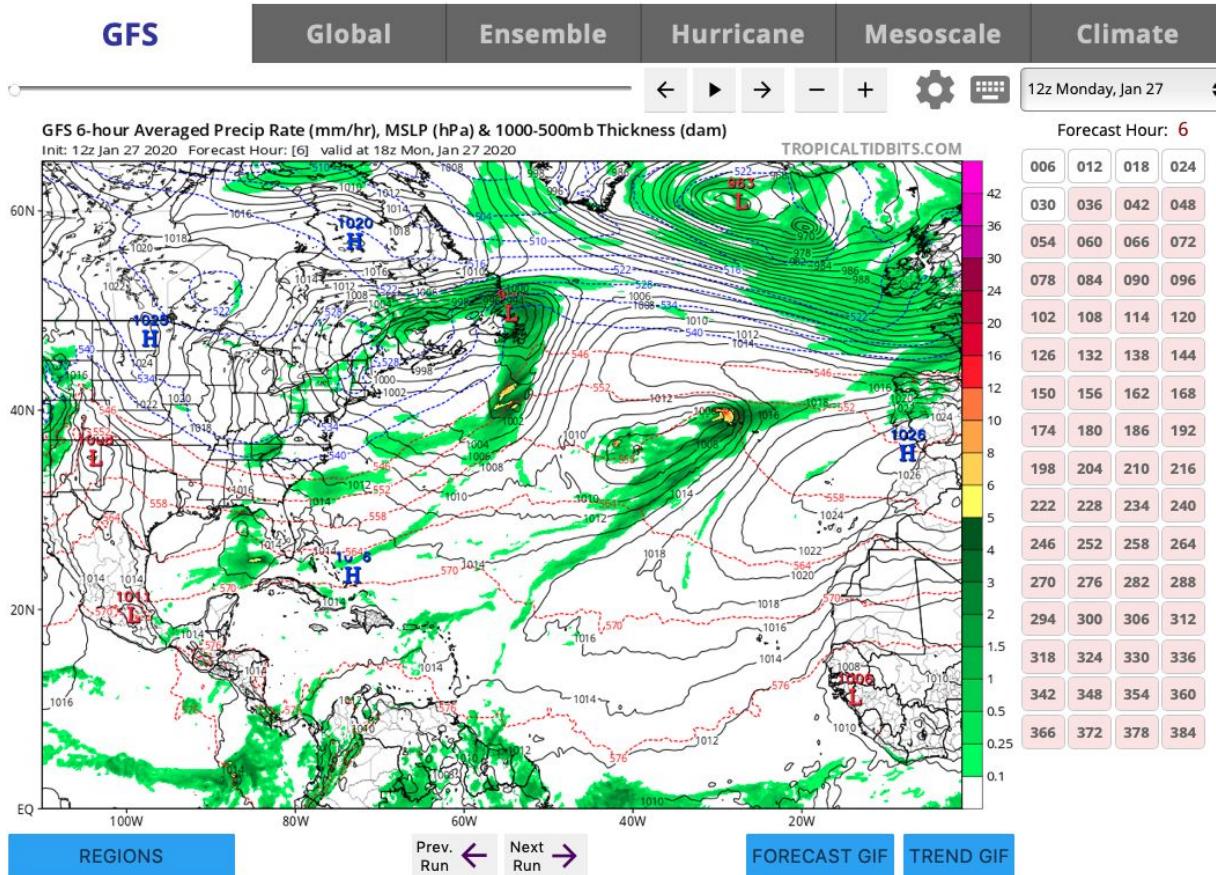
GOES-16 True Color + IR (ATOMIC mesoscale)



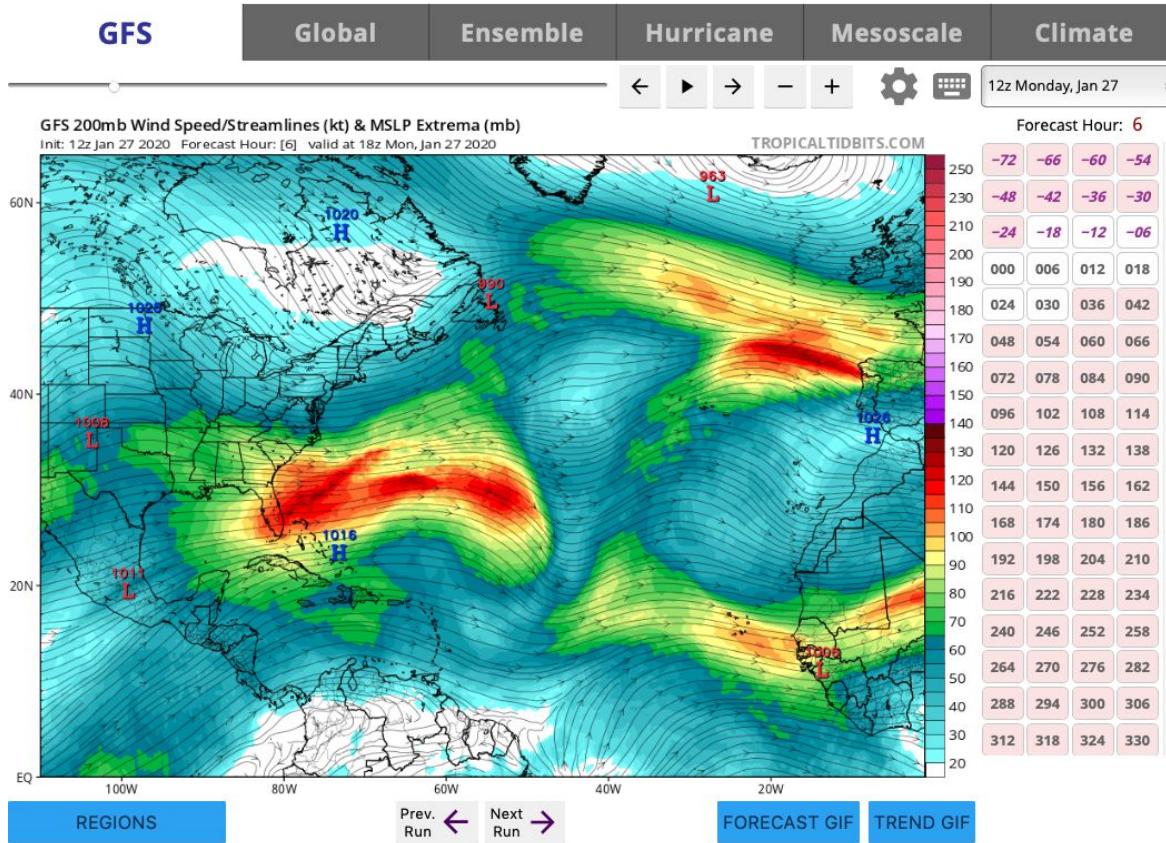
GFS analysis



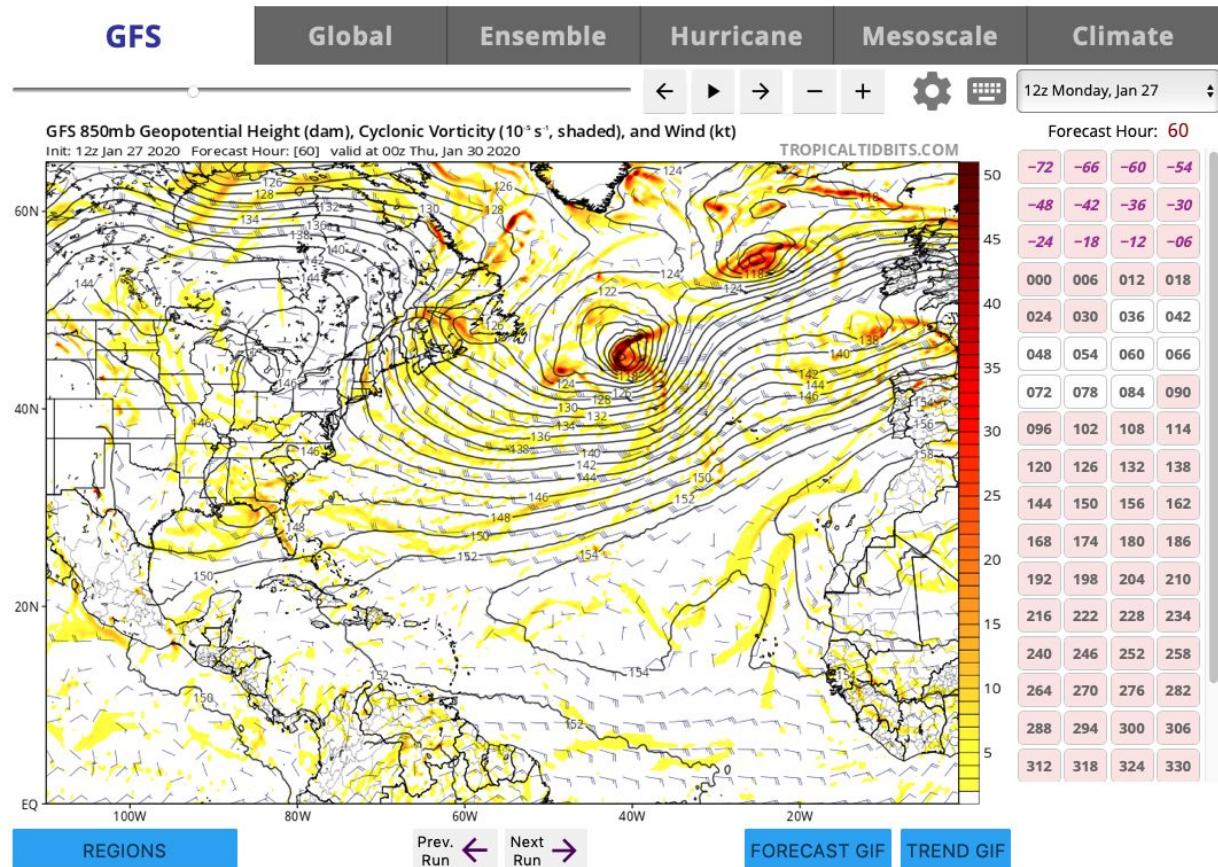
GFS analysis



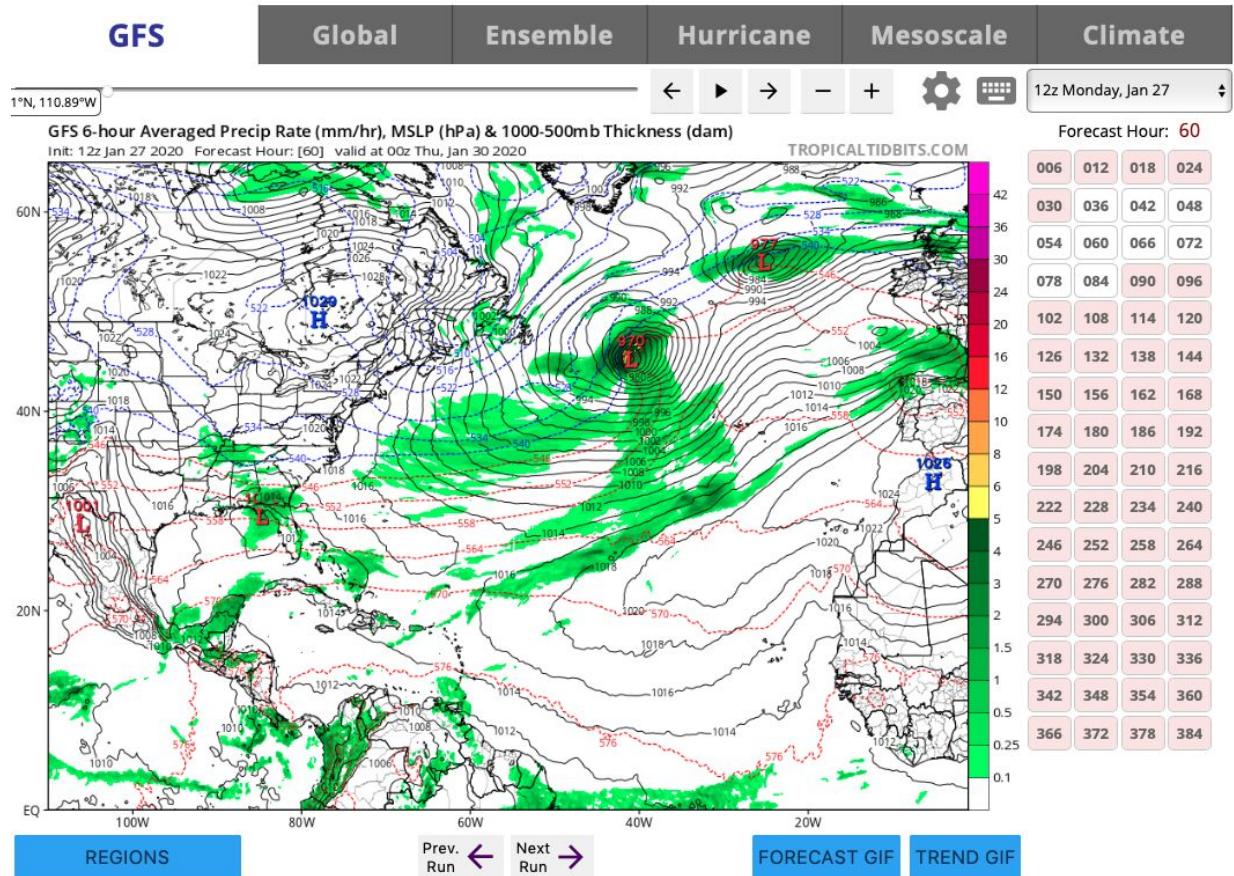
GFS analysis



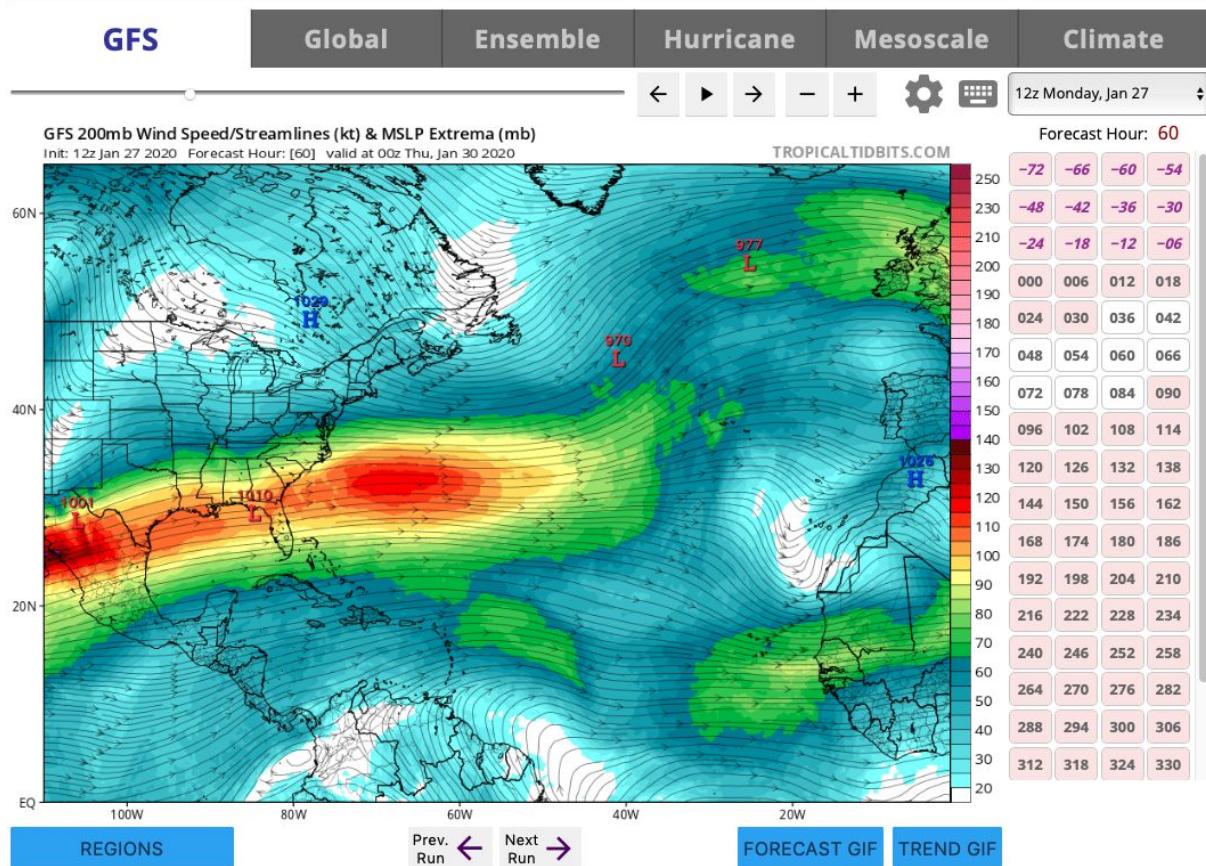
GFS 60hr forecast (valid on 6/30 ->next P3 flight



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Larger differences when flying through clouds!

<https://www.esrl.noaa.gov/psd/atomic/briefing/>

Soundings with GFS Model Comparisons

Selected Platform:

NOAA P3

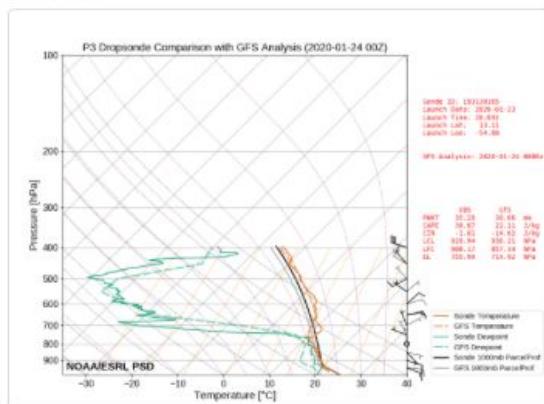
Selected Sonde:

◀ Prev

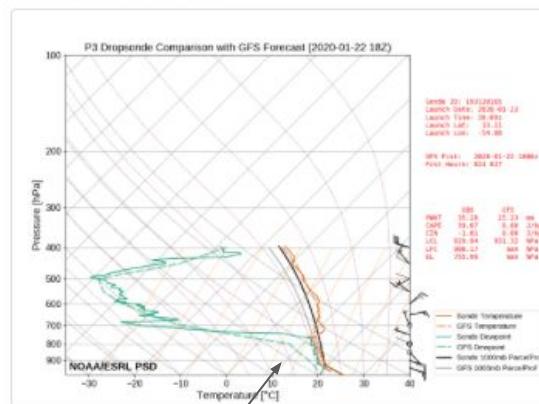
2020-01-23 20:09 UTC

Next ▶

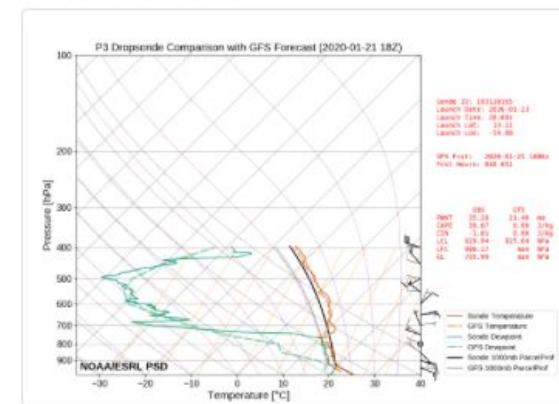
Analysis



~24 Hour Forecast



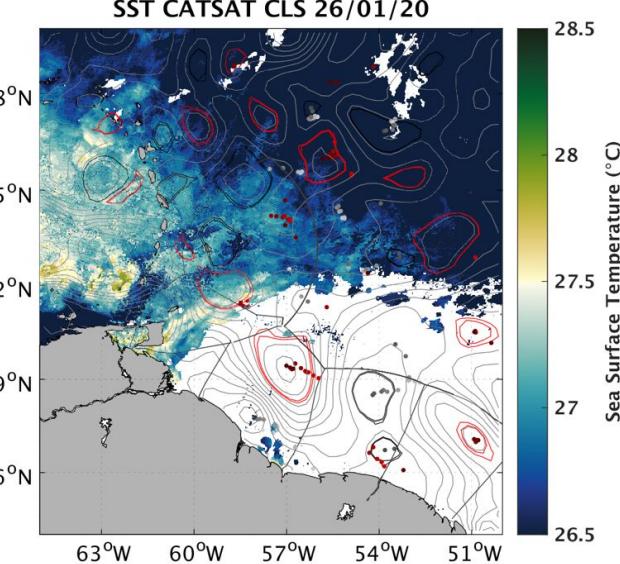
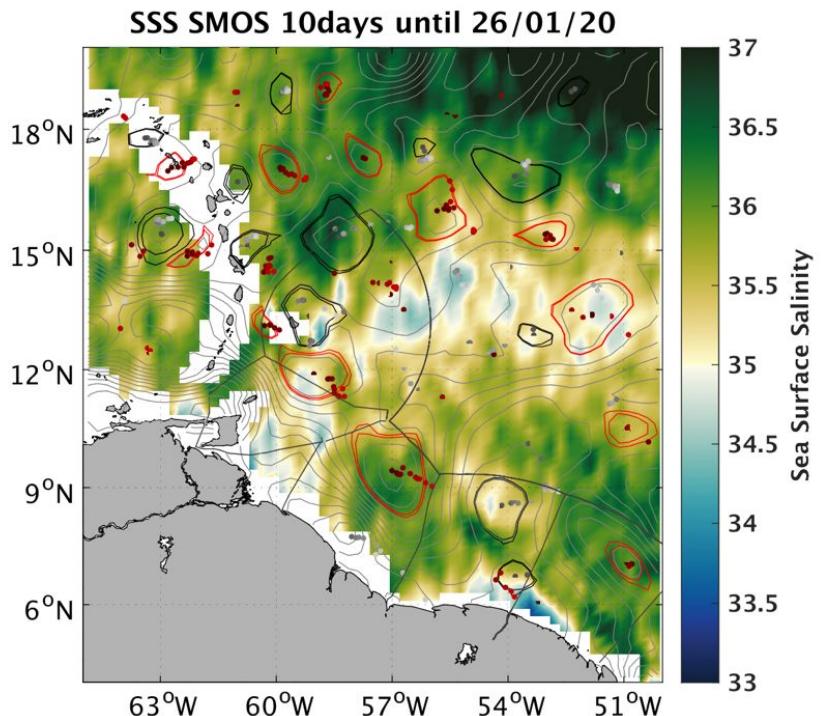
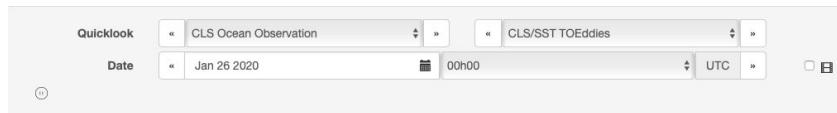
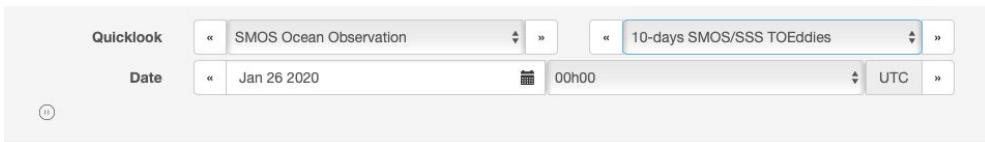
~48 Hour Forecast



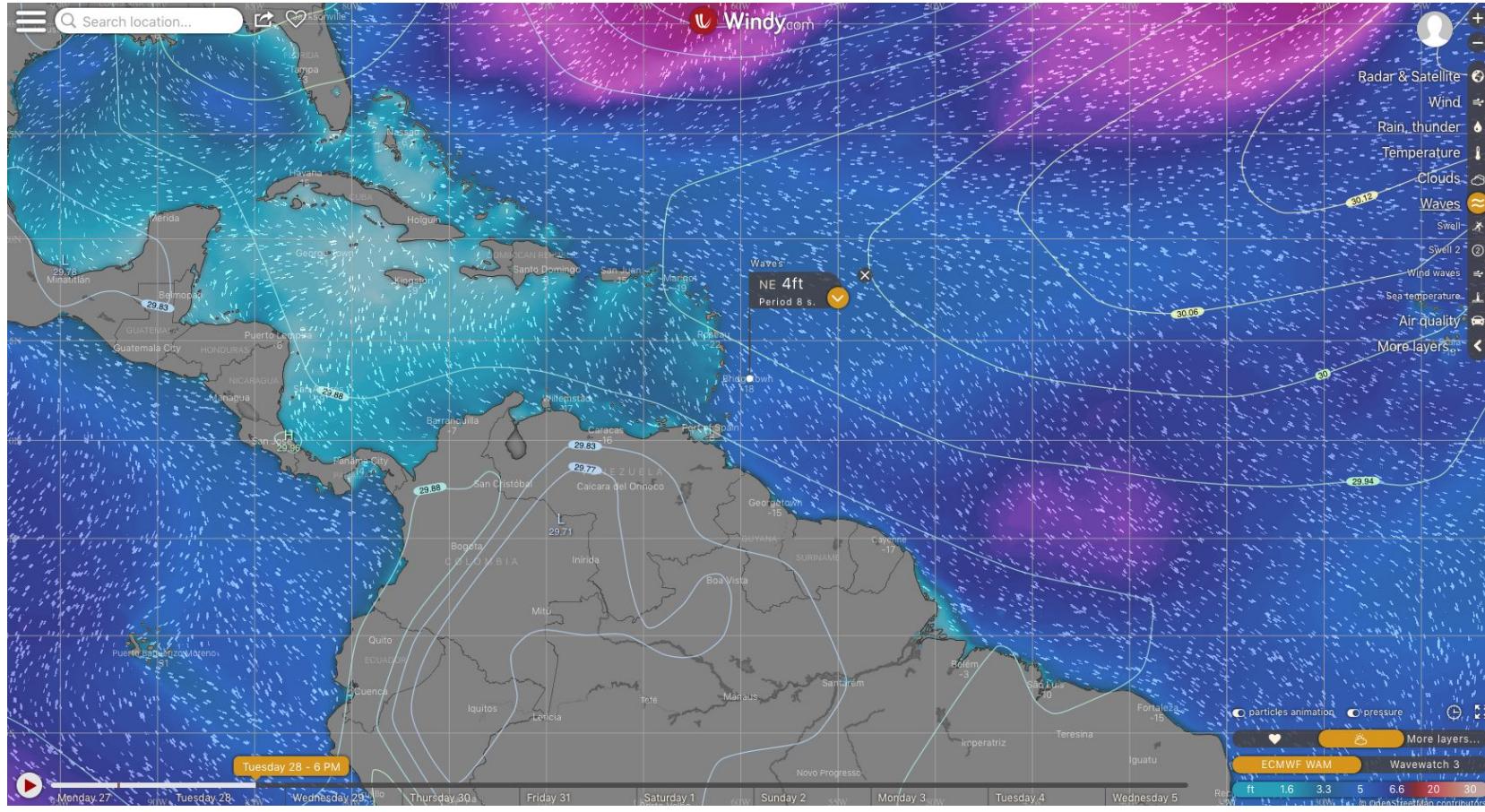
The GFS analysis field is from the closest run time to the sounding time; the 24 & 48 hour forecast data are interpolated from the nearest times to the sounding time (see plot for exact times used). GFS vertical spacing is every 50 hPa.

Lower levels are drier in the GFS forecasts

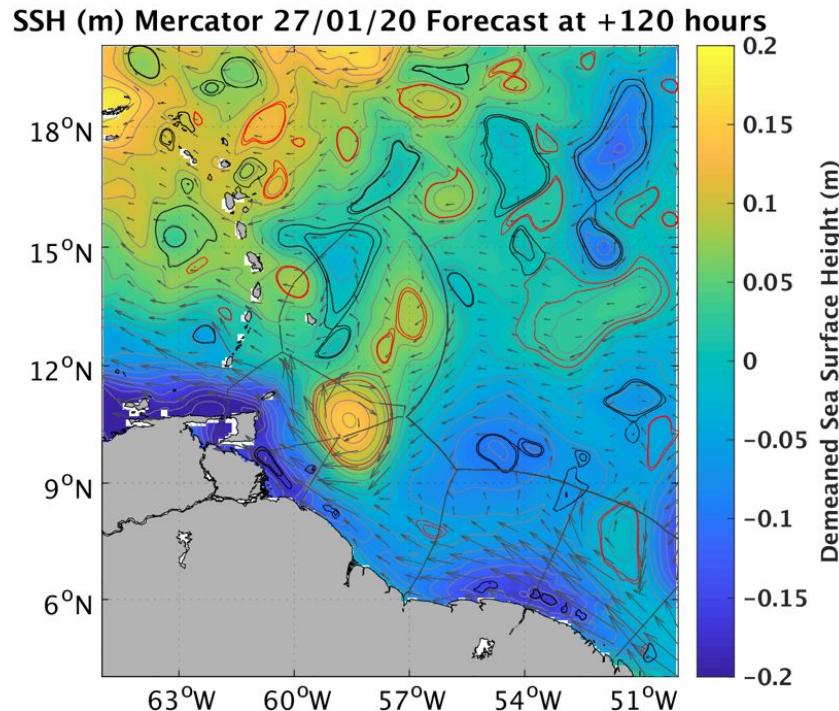
Latest ocean observations: SST/SSS & TOEddies



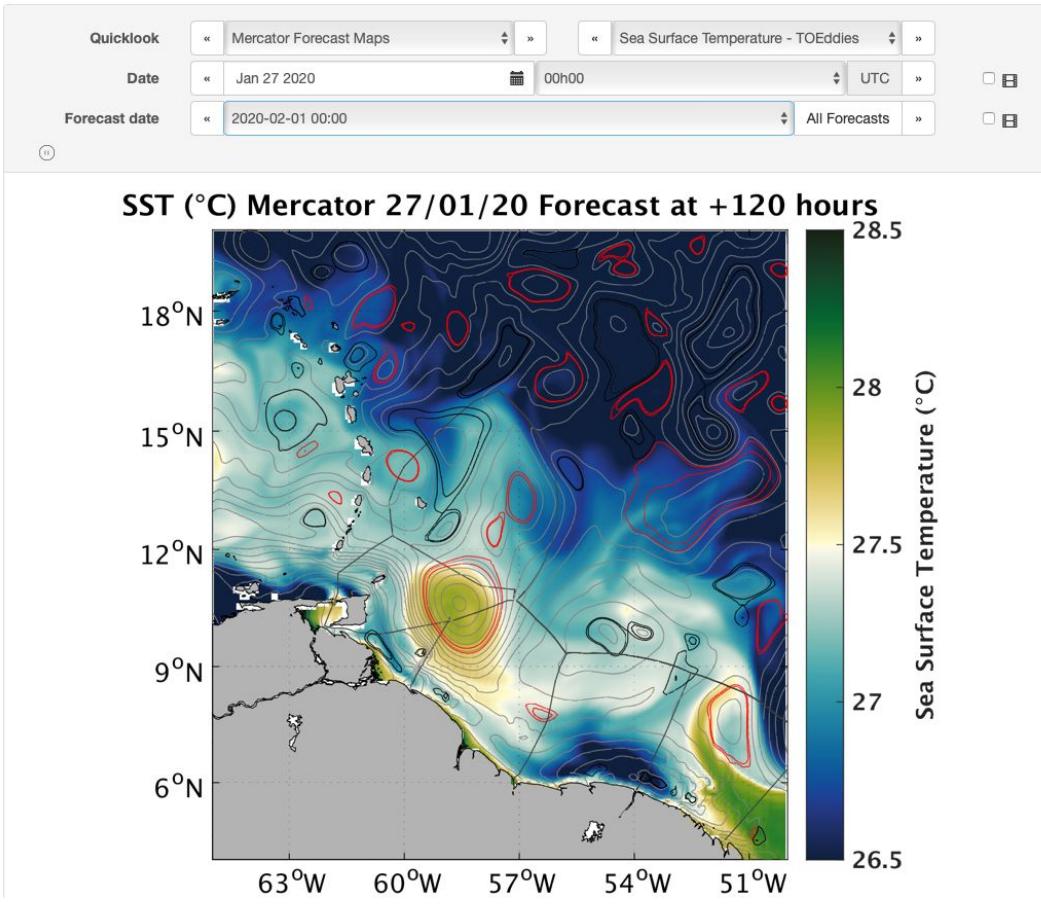
Waves forecast



Ocean Forecasts



Ocean Forecasts



Ocean Forecasts

